

FIG. 1

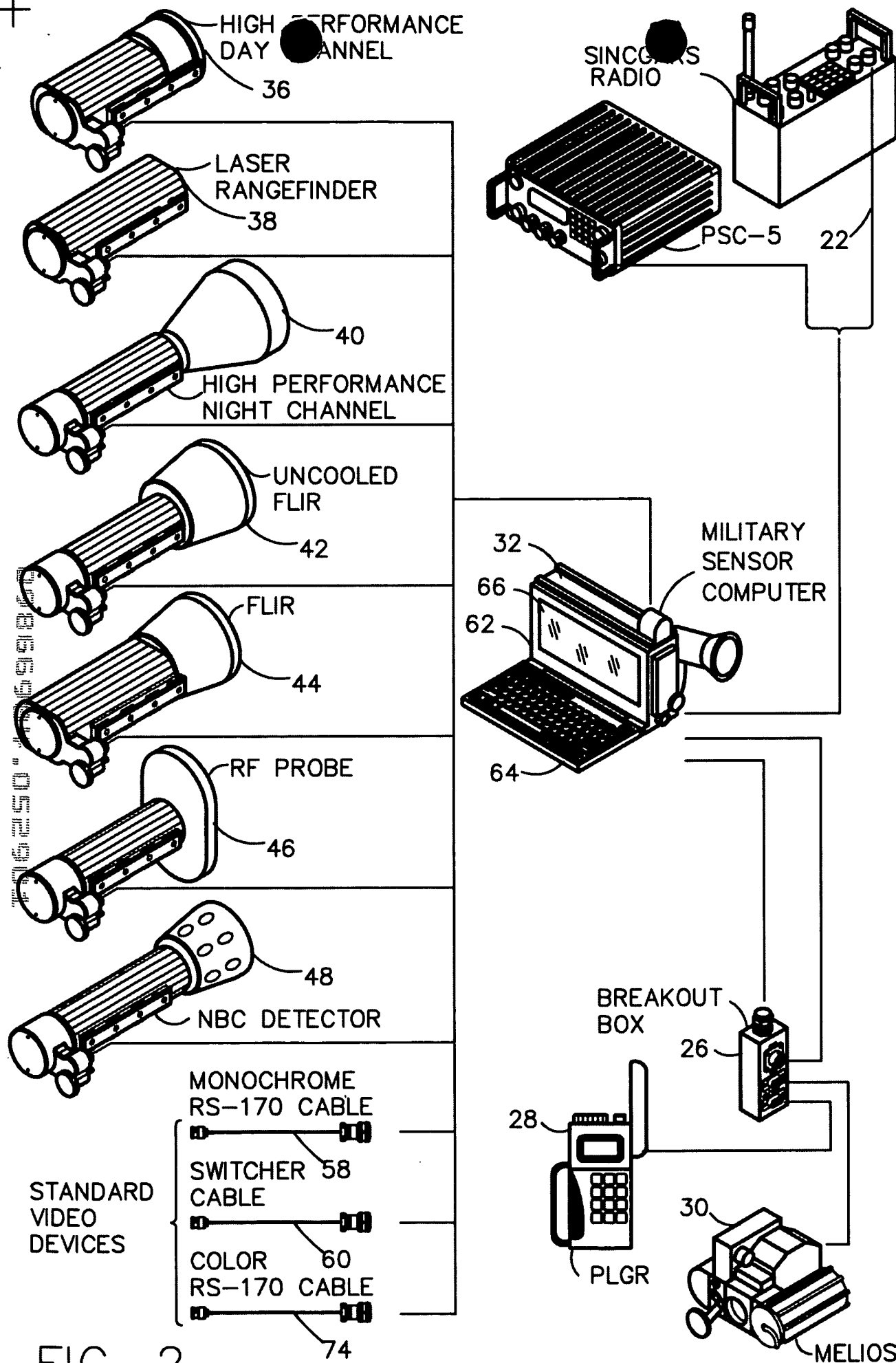


FIG. 2

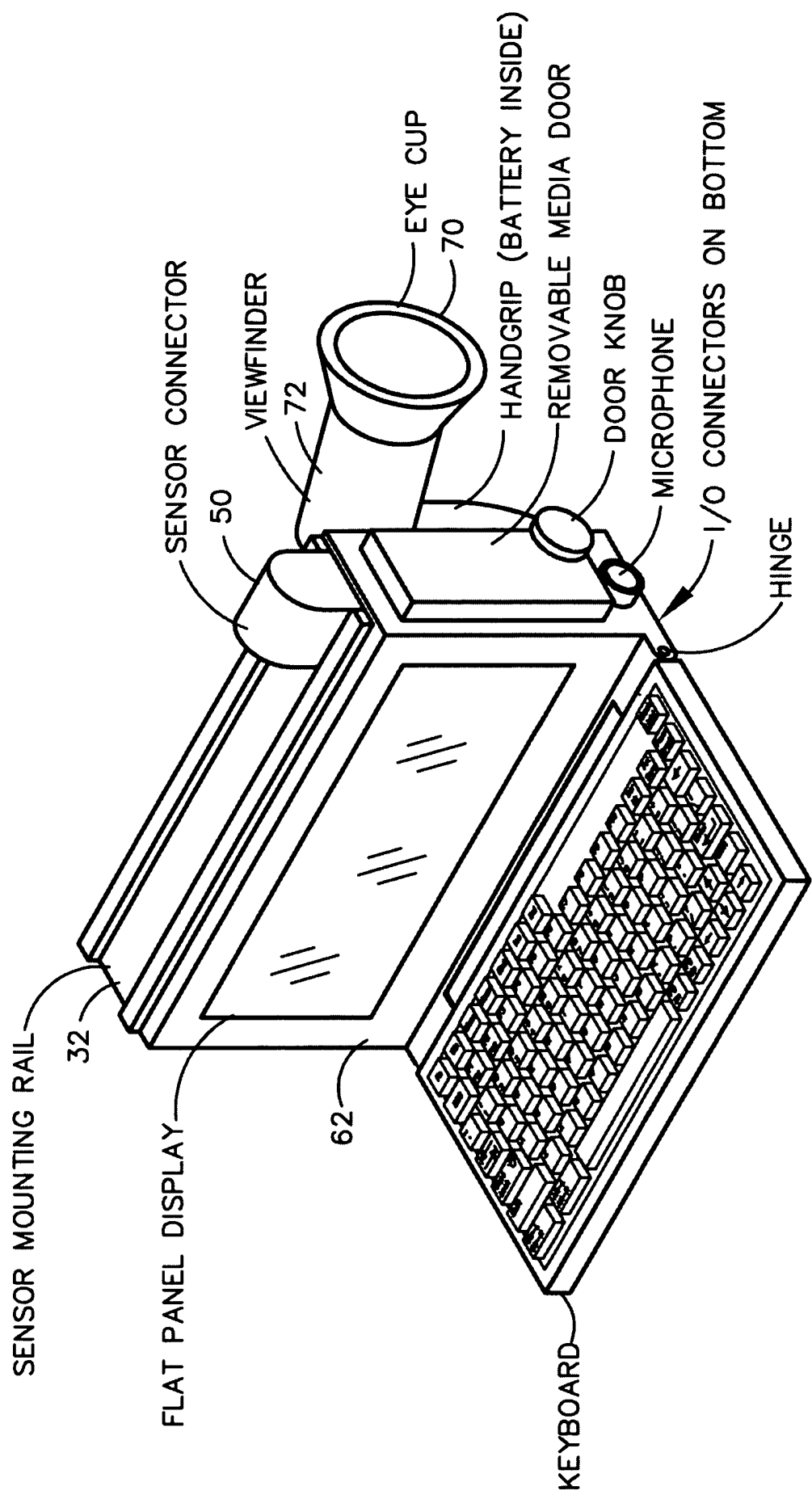
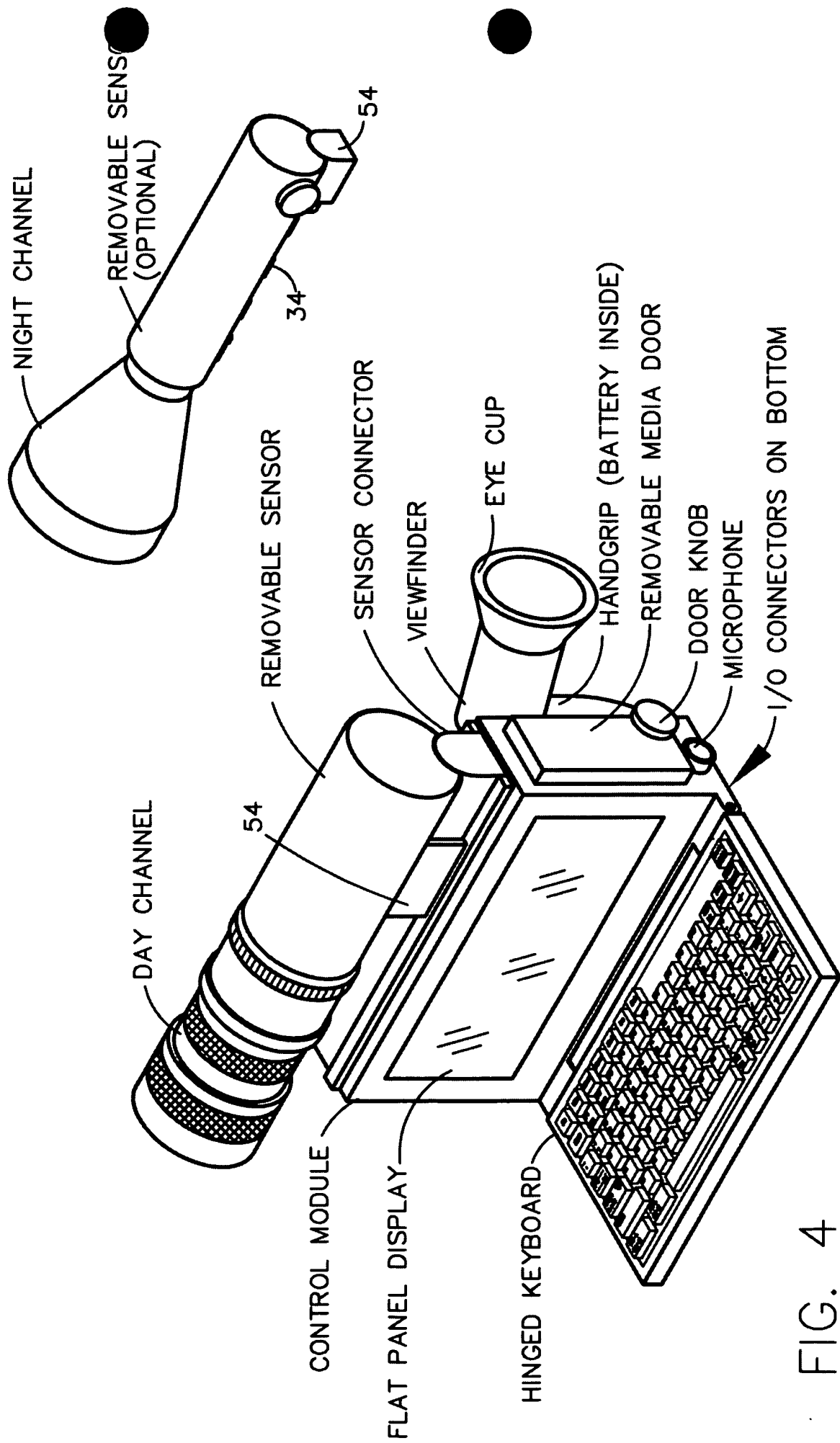


FIG. 3



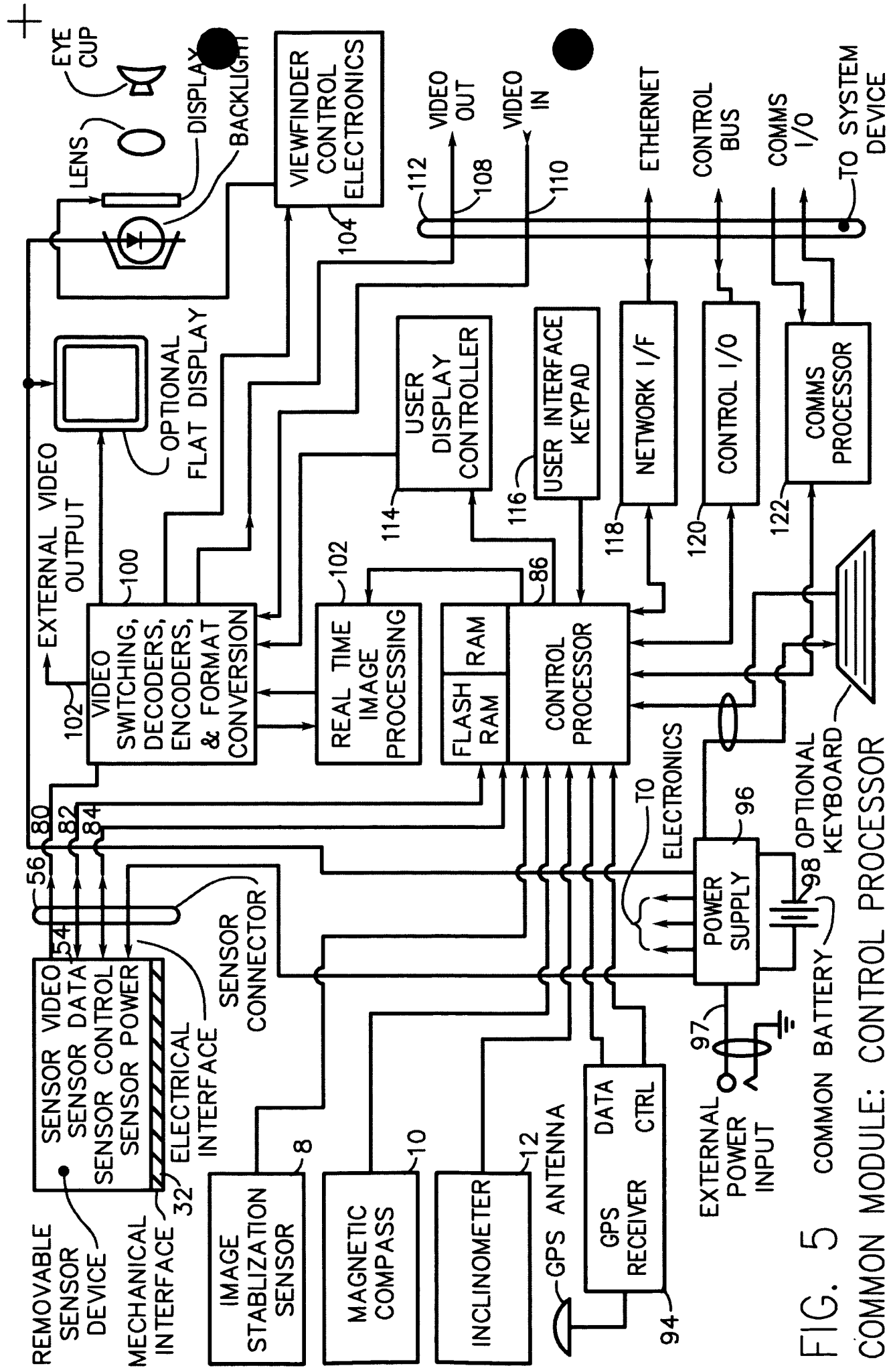


FIG. 5 COMMON MODULE: CONTROL PROCESSOR

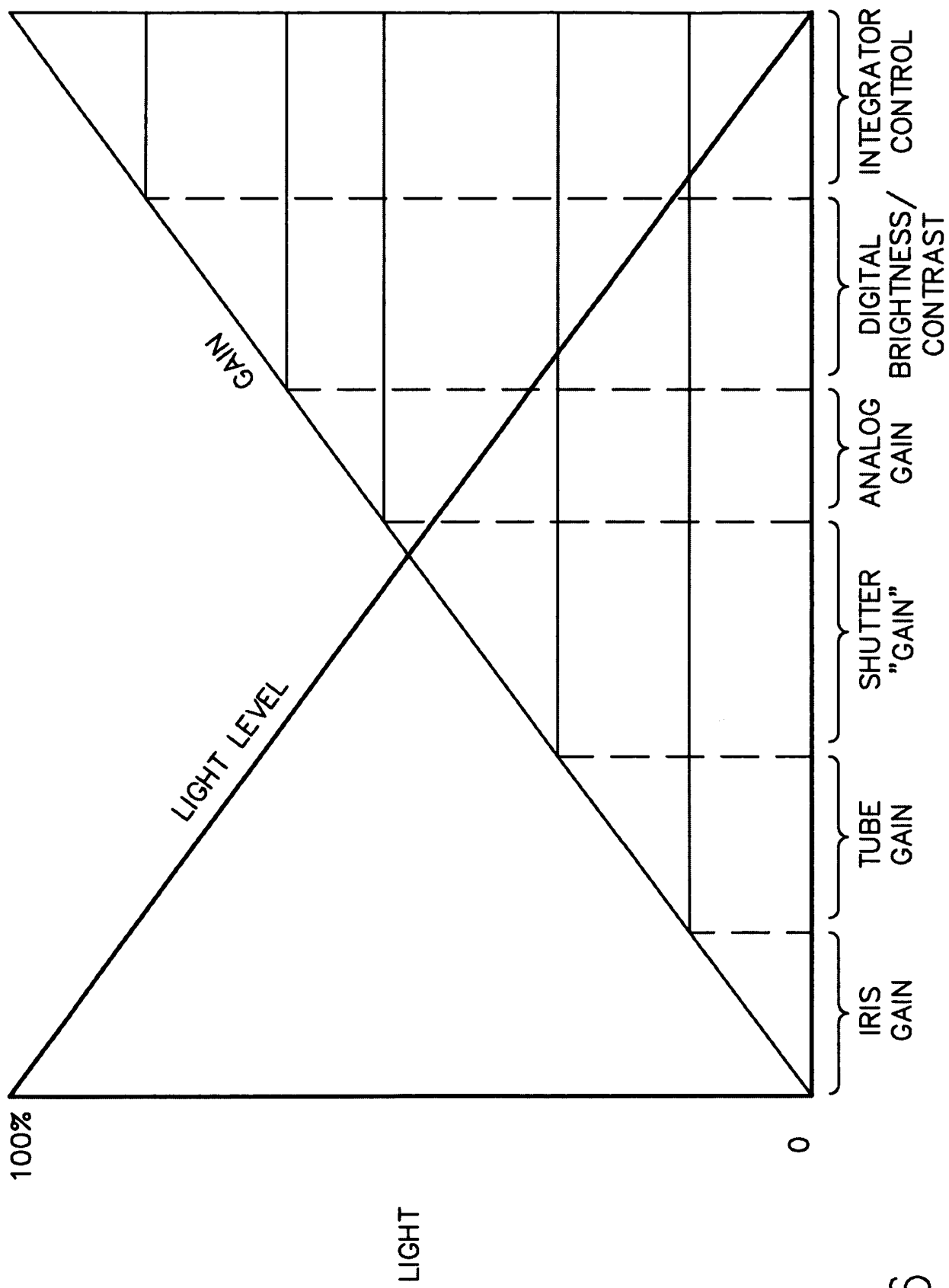


FIG. 6

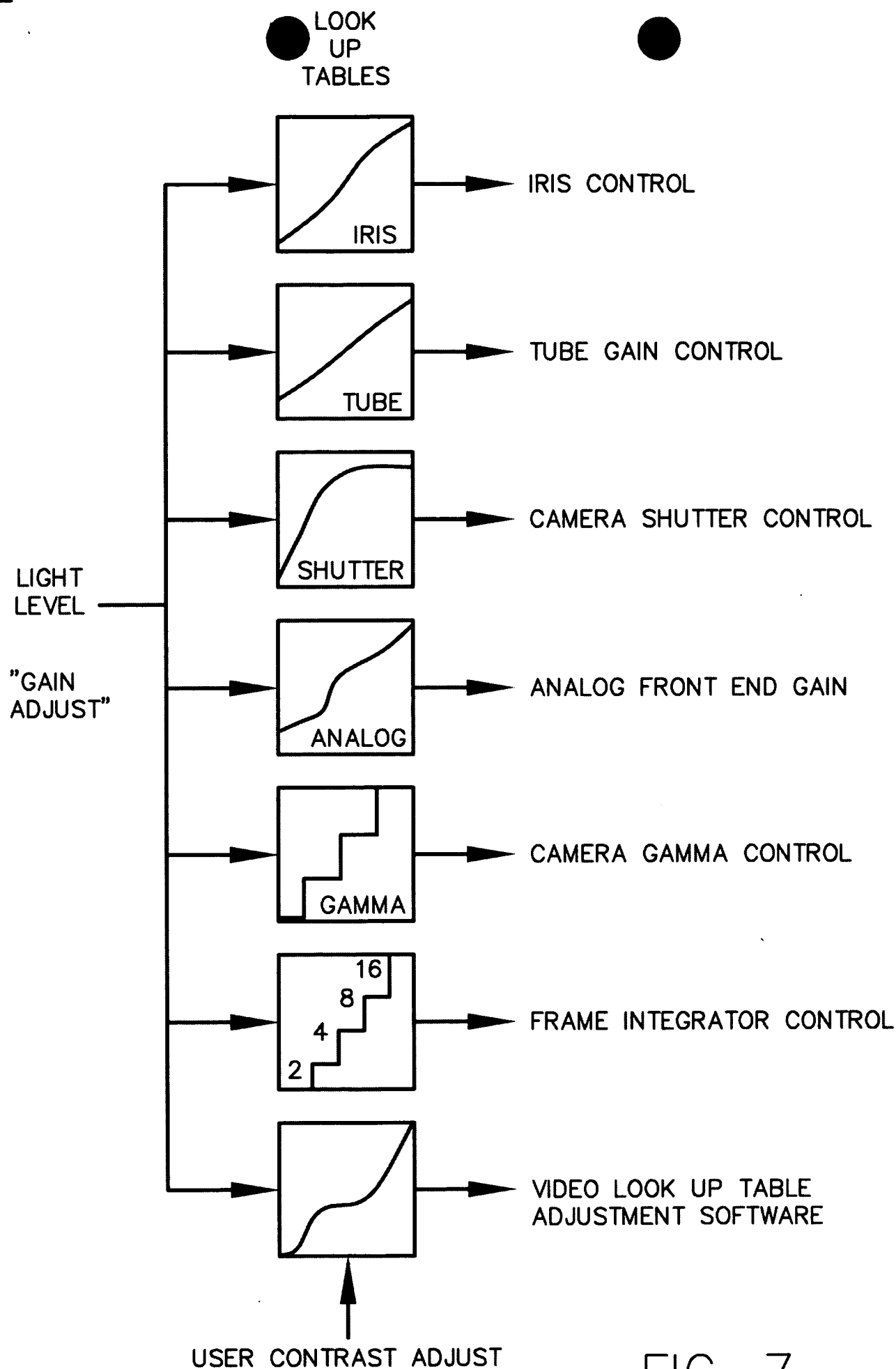
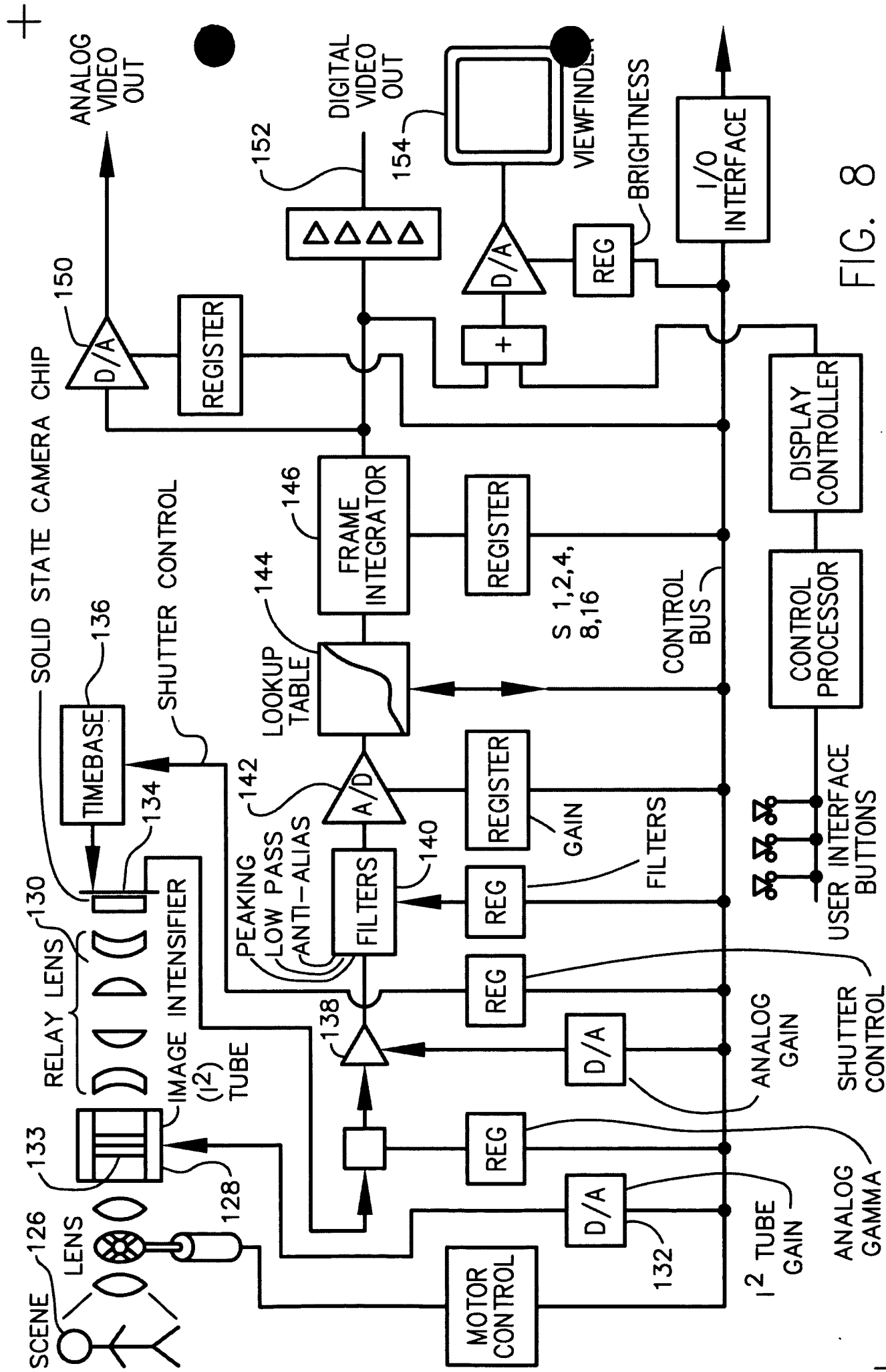
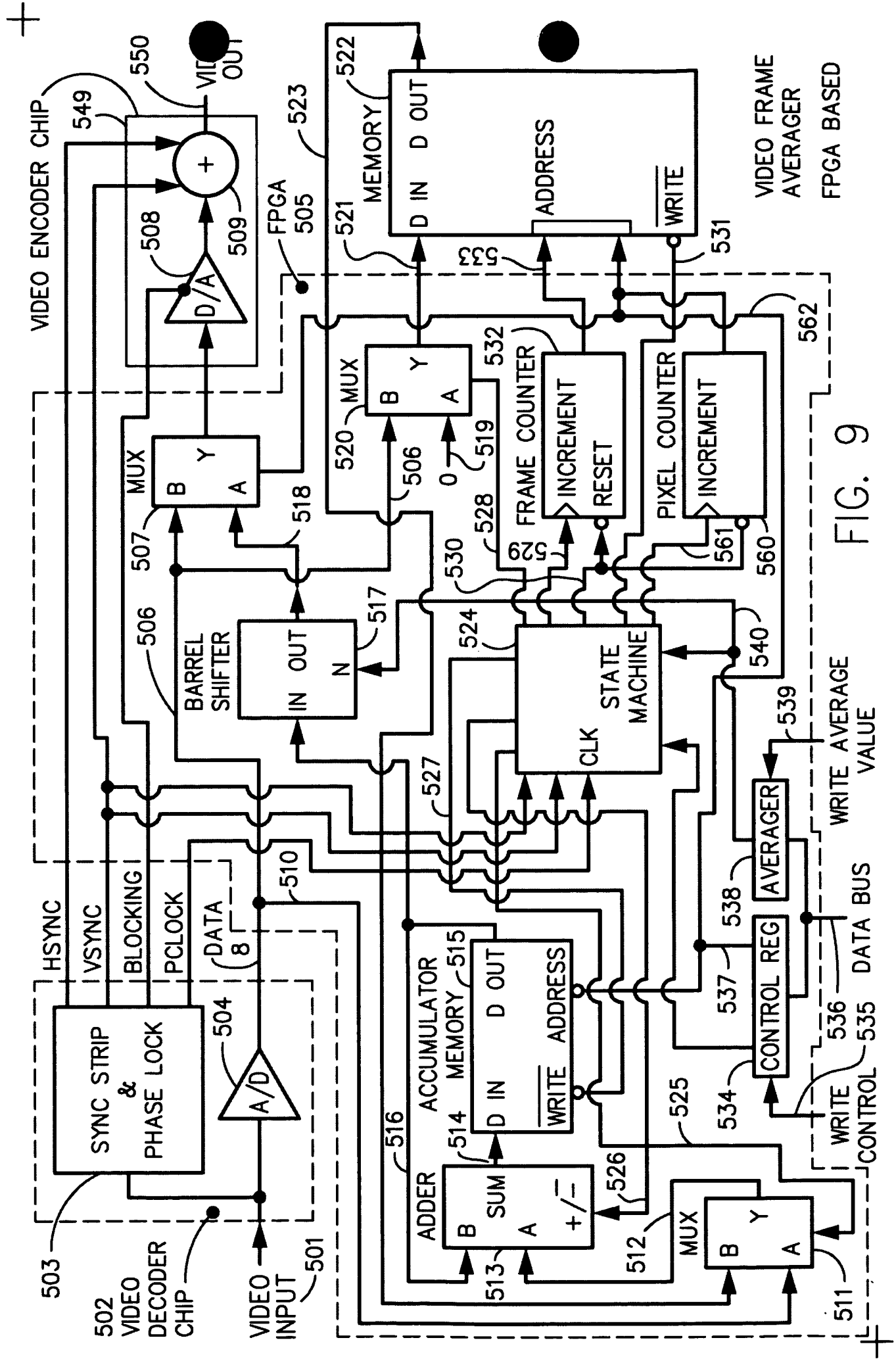


FIG. 7





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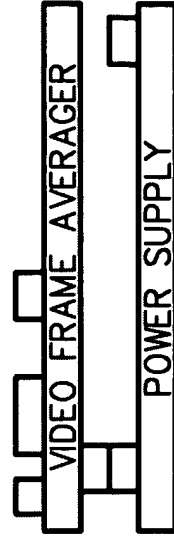
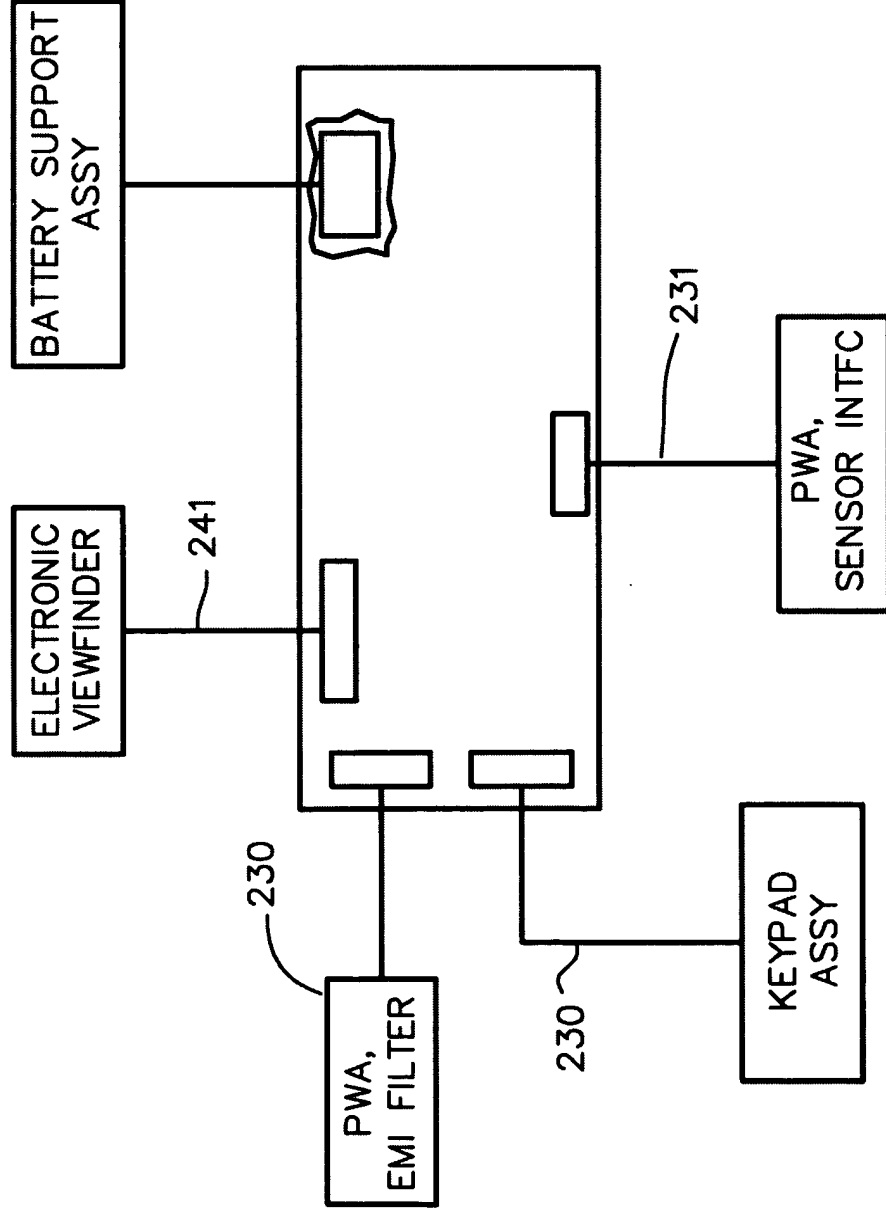


FIG. 10

+

FIG. 10d

Design Engineer:
Rajeev K. K.

Project Title: VFA

Company:
Spectrum
INTELLIGENT INSTRUMENTATION
17725 Spectrum Drive
San Antonio, Texas 78249

Sheet: 2 of 7


Revision: A

Date: Friday, May 18, 2001

Proprietary & Confidential
Drawn By: D. J. G. 001

Table of Components:

Ref	Value	Part	Value	Part	Value	Part
C46	0.1uF	Capacitor	C58	0.1uF	Capacitor	C62
C47	220pF	Capacitor	C59	0.1uF	Capacitor	C63
C48	0.1uF	Capacitor	C60	0.1uF	Capacitor	C64
C49	0.1uF	Capacitor	C61	0.1uF	Capacitor	C65
C50	0.1uF	Capacitor	C62	0.1uF	Capacitor	C66
C51	0.1uF	Capacitor	C63	0.1uF	Capacitor	C67
C52	0.1uF	Capacitor	C64	0.1uF	Capacitor	C68
C53	0.1uF	Capacitor	C65	0.1uF	Capacitor	C69
C54	0.1uF	Capacitor	C66	0.1uF	Capacitor	C70
C55	0.1uF	Capacitor	C67	0.1uF	Capacitor	C71
C56	0.1uF	Capacitor	C68	0.1uF	Capacitor	C72
C57	0.1uF	Capacitor	C69	0.1uF	Capacitor	C73
C58	0.1uF	Capacitor	C70	0.1uF	Capacitor	C74
C59	0.1uF	Capacitor	C71	0.1uF	Capacitor	C75
C60	0.1uF	Capacitor	C72	0.1uF	Capacitor	C76
C61	0.1uF	Capacitor	C73	0.1uF	Capacitor	C77
C62	0.1uF	Capacitor	C74	0.1uF	Capacitor	C78
C63	0.1uF	Capacitor	C75	0.1uF	Capacitor	C79
C64	0.1uF	Capacitor	C76	0.1uF	Capacitor	C80
C65	0.1uF	Capacitor	C77	0.1uF	Capacitor	C81
C66	0.1uF	Capacitor	C78	0.1uF	Capacitor	C82
C67	0.1uF	Capacitor	C79	0.1uF	Capacitor	C83
C68	0.1uF	Capacitor	C80	0.1uF	Capacitor	C84
C69	0.1uF	Capacitor	C81	0.1uF	Capacitor	C85
C70	0.1uF	Capacitor	C82	0.1uF	Capacitor	C86
C71	0.1uF	Capacitor	C83	0.1uF	Capacitor	C87
C72	0.1uF	Capacitor	C84	0.1uF	Capacitor	C88
C73	0.1uF	Capacitor	C85	0.1uF	Capacitor	C89
C74	0.1uF	Capacitor	C86	0.1uF	Capacitor	C90
C75	0.1uF	Capacitor	C87	0.1uF	Capacitor	C91
C76	0.1uF	Capacitor	C88	0.1uF	Capacitor	C92
C77	0.1uF	Capacitor	C89	0.1uF	Capacitor	C93
C78	0.1uF	Capacitor	C90	0.1uF	Capacitor	C94
C79	0.1uF	Capacitor	C91	0.1uF	Capacitor	C95
C80	0.1uF	Capacitor	C92	0.1uF	Capacitor	C96
C81	0.1uF	Capacitor	C93	0.1uF	Capacitor	C97
C82	0.1uF	Capacitor	C94	0.1uF	Capacitor	C98
C83	0.1uF	Capacitor	C95	0.1uF	Capacitor	C99
C84	0.1uF	Capacitor	C96	0.1uF	Capacitor	C100
C85	0.1uF	Capacitor	C97	0.1uF	Capacitor	C101
C86	0.1uF	Capacitor	C98	0.1uF	Capacitor	C102
C87	0.1uF	Capacitor	C99	0.1uF	Capacitor	C103
C88	0.1uF	Capacitor	C100	0.1uF	Capacitor	C104
C89	0.1uF	Capacitor	C101	0.1uF	Capacitor	C105
C90	0.1uF	Capacitor	C102	0.1uF	Capacitor	C106
C91	0.1uF	Capacitor	C103	0.1uF	Capacitor	C107
C92	0.1uF	Capacitor	C104	0.1uF	Capacitor	C108
C93	0.1uF	Capacitor	C105	0.1uF	Capacitor	C109
C94	0.1uF	Capacitor	C106	0.1uF	Capacitor	C110
C95	0.1uF	Capacitor	C107	0.1uF	Capacitor	C111
C96	0.1uF	Capacitor	C108	0.1uF	Capacitor	C112
C97	0.1uF	Capacitor	C109	0		

 <p>Spectrum Technology INTELLIGENCE INSTRUMENTATION</p>	<p>12725 Spectrum Drive San Antonio, Texas 78249</p>	<p>Project Title VFA</p>	<p>Size 10 Pages 10 HOST/RTGA</p>	<p>Page 1</p>
<p>Design Engineer: Roger Haeber</p>	<p>Preparatory & Confidential Drawn By: DAW Reviewed: DAW</p>	<p>Project Number A</p>	<p>Project Number 001-001</p>	<p>File</p>

TOP SECRET 106250-103593860

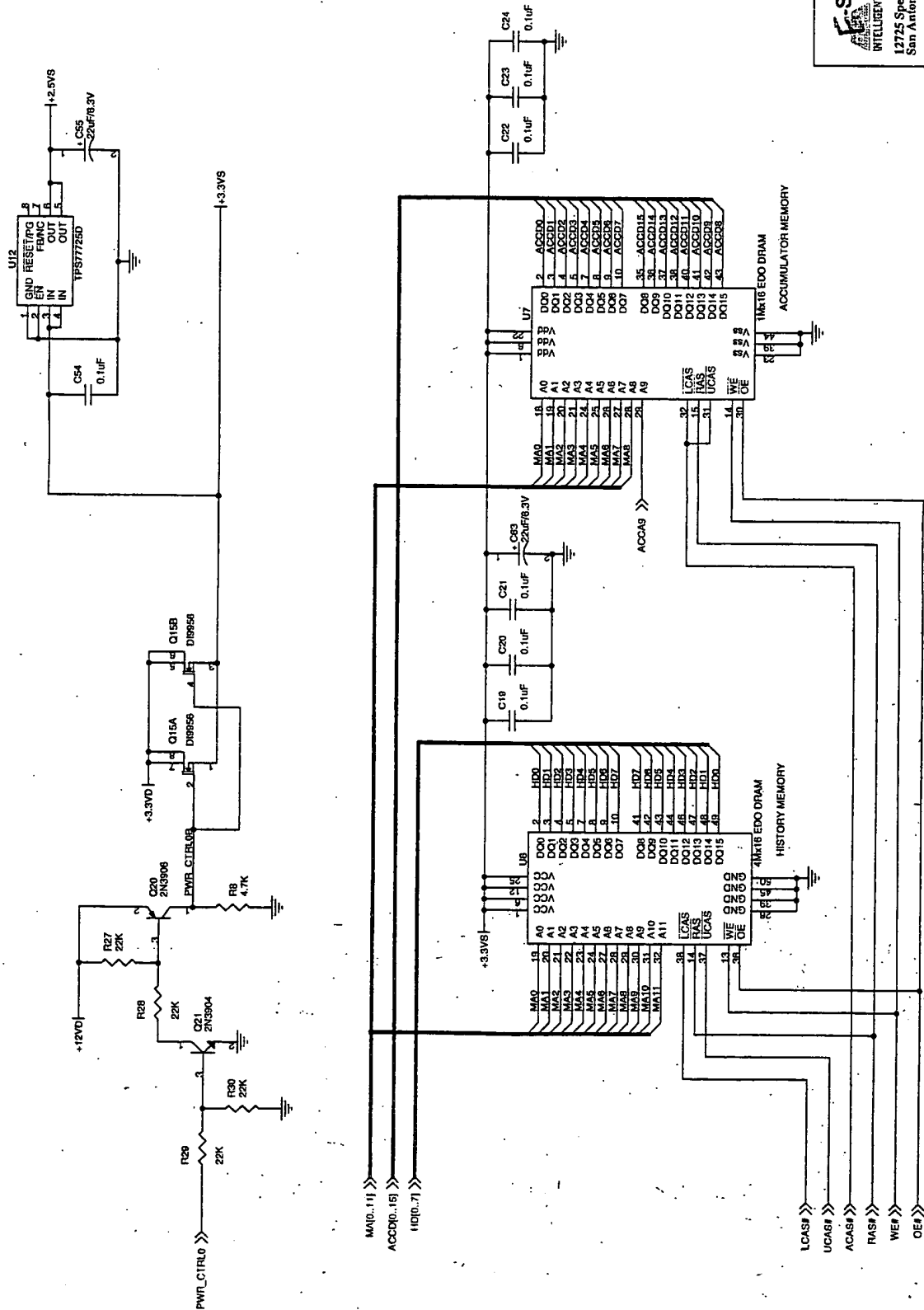


FIG. 10e

TOP SECRET

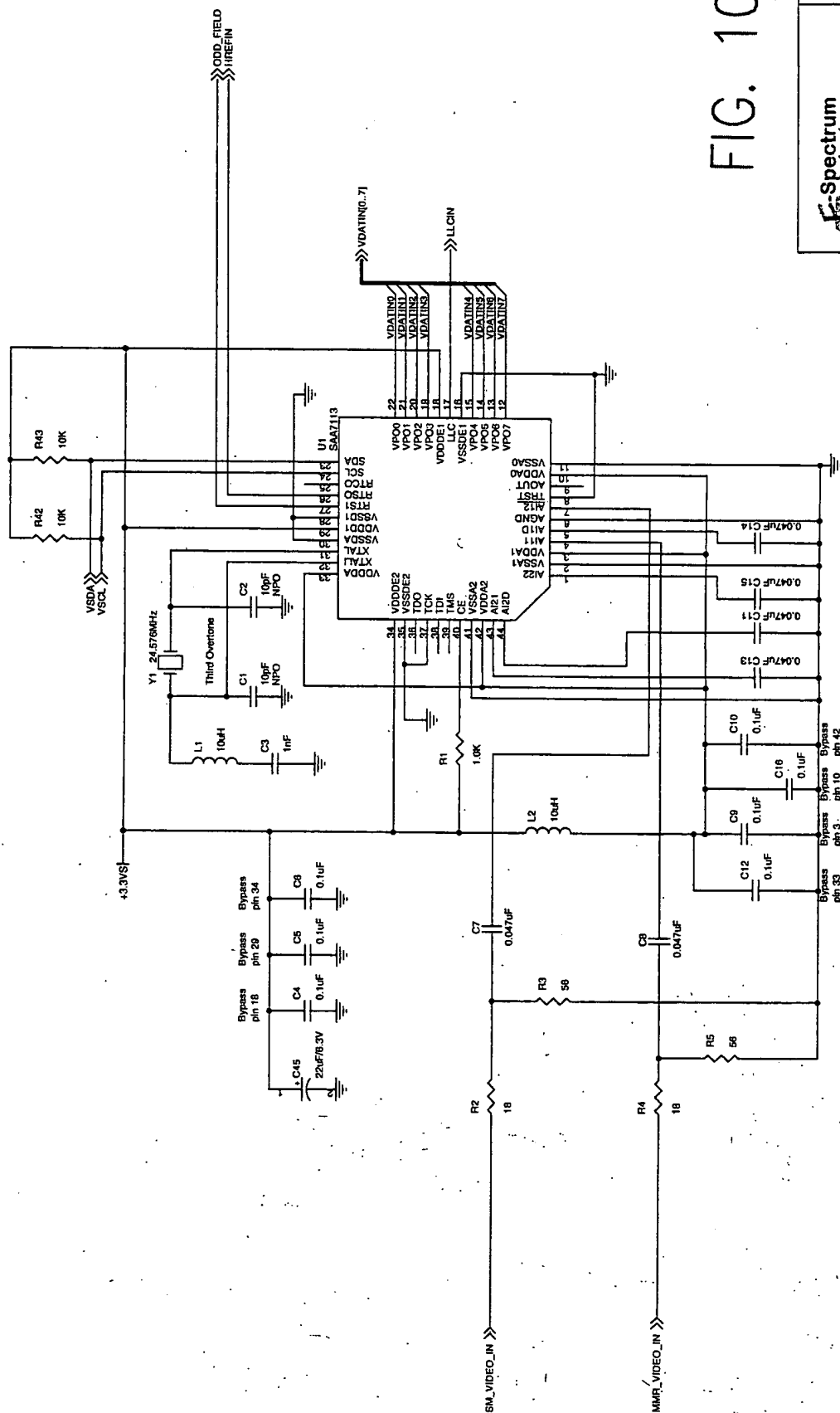


FIG. 10f

Spectrum INTELLIGENT INSTRUMENTATION 12725 Spectrum Drive San Antonio, Texas 78249		Design Engineer: Roger H. Miller	
Project Title: VFA		Proprietary & Confidential	
Drawn By: BLM		Dwg. # 03-1031-001	
Date: Friday, May 18, 2011		Sheet 4 of 7	

FIG. 10g

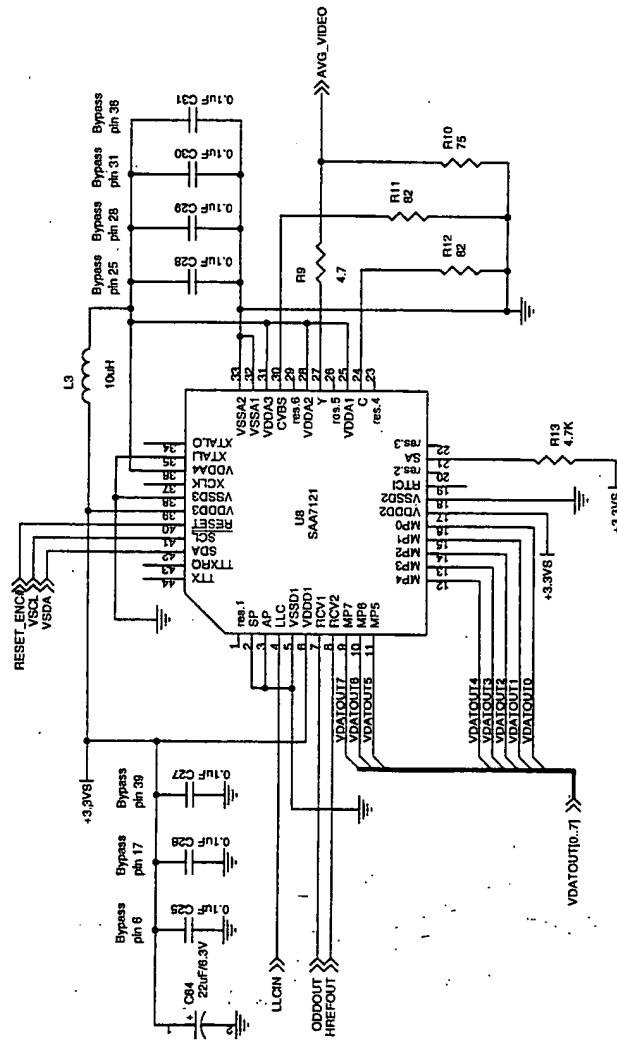


FIG. 10g

Spectrum INTELLIGENT INSTRUMENTATION 12724 Spectrum Drive San Antonio, Texas 78249		Design Engineers: Roger Hecker
Project Title: VFA Page Title: VIDEO ENCODER Date: Friday, May 18, 2001	Proprietary & Confidential Drawn By: RLM Dwg #: 91-103-1001 Sheet: 5 of 7	File: FIG. 10g

FIG. 10h

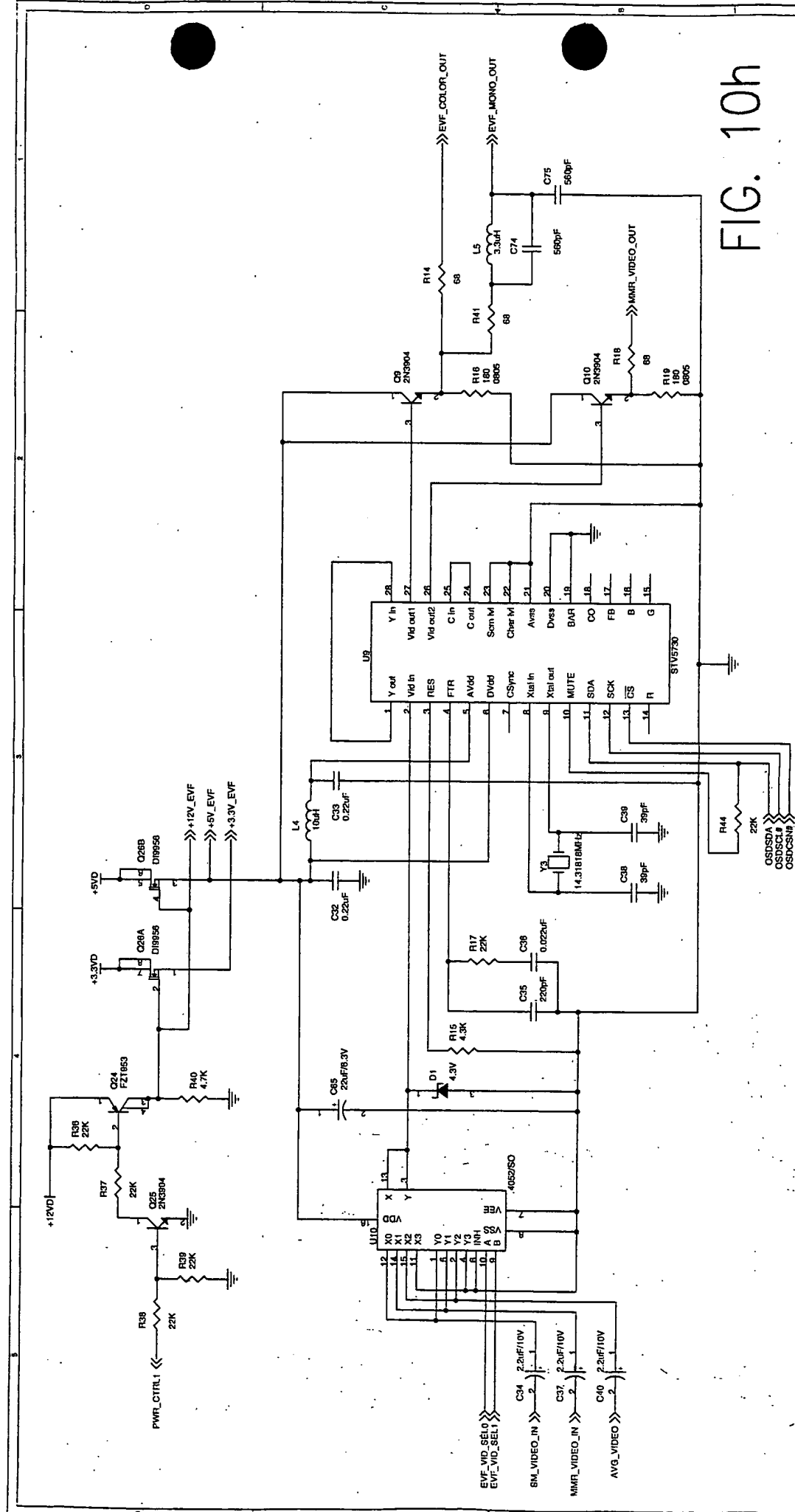
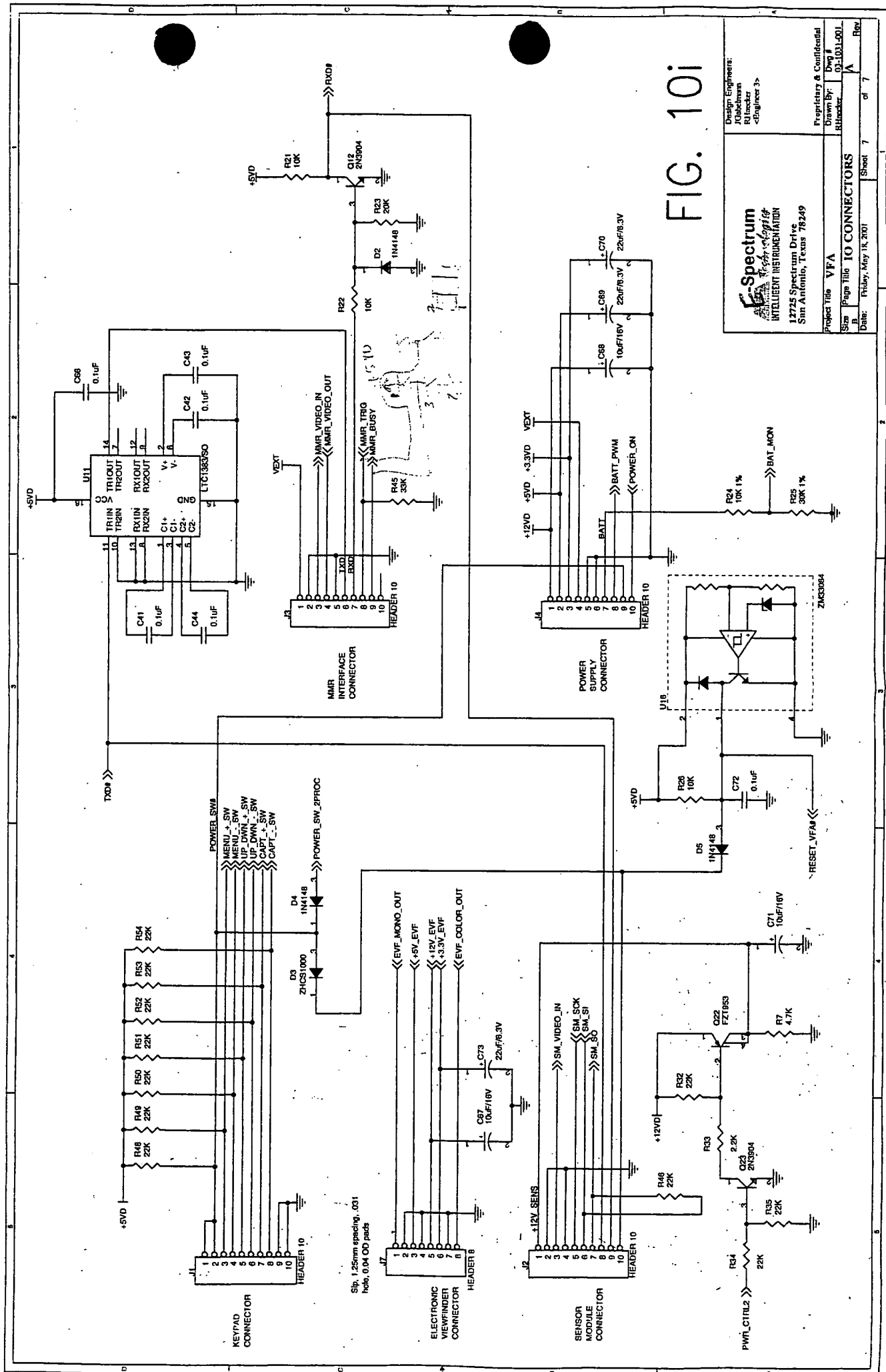


FIG. 10h

Spectrum INTELLIGENT INSTRUMENTATION 12725 Spectrum Drive San Antonio, TX 78249		Design Engineers: Roger Tucker
Project Title: VFA Page Title: OSD		Proprietary & Confidential Drawn By: RHacker Dwg #: 1001-001
Size: B Date: Friday, May 18, 2001	Sheet: 6 of 7	Rev: A

FIG. 10i



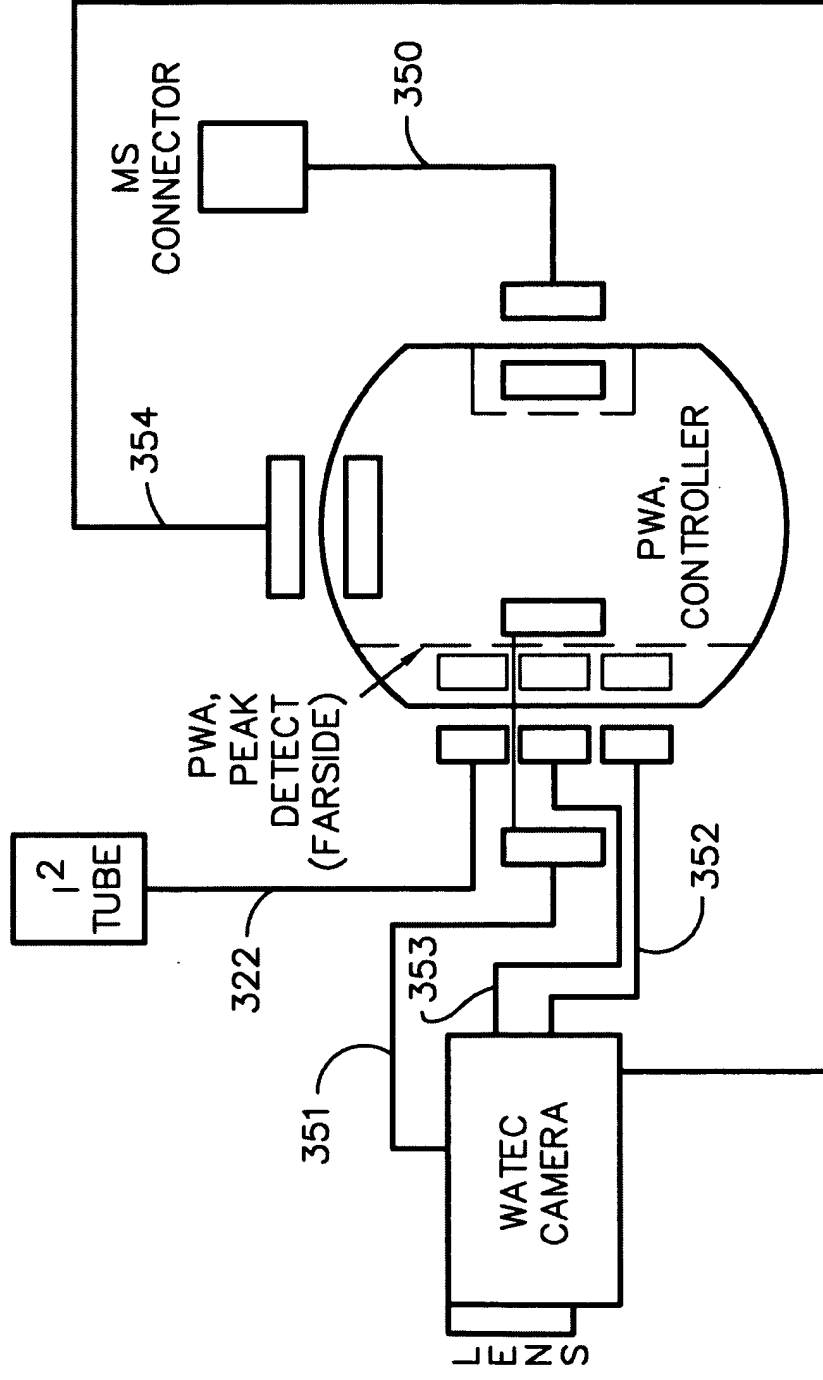


FIG. 11

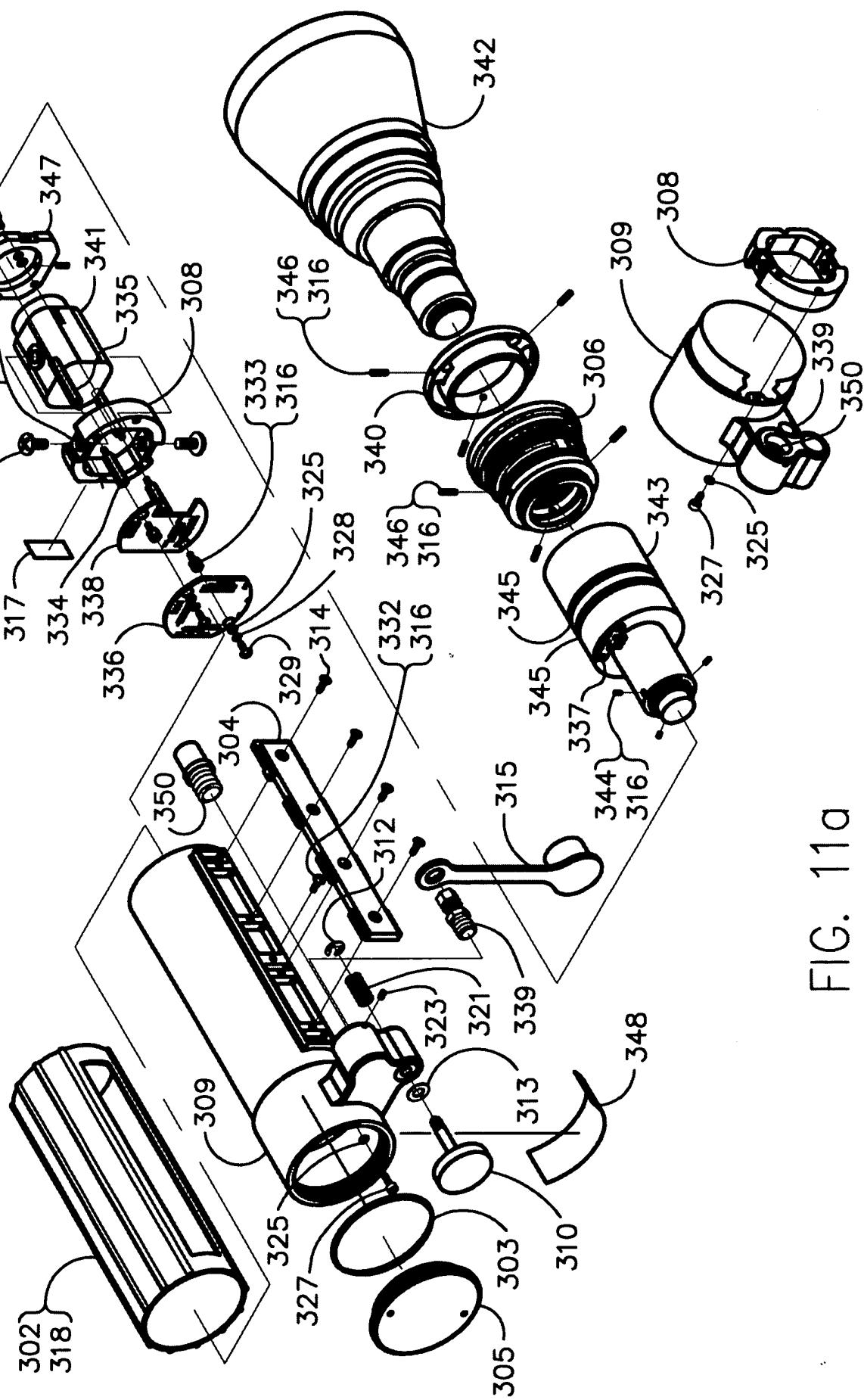


FIG. 11a



TOP SECRET 4869860

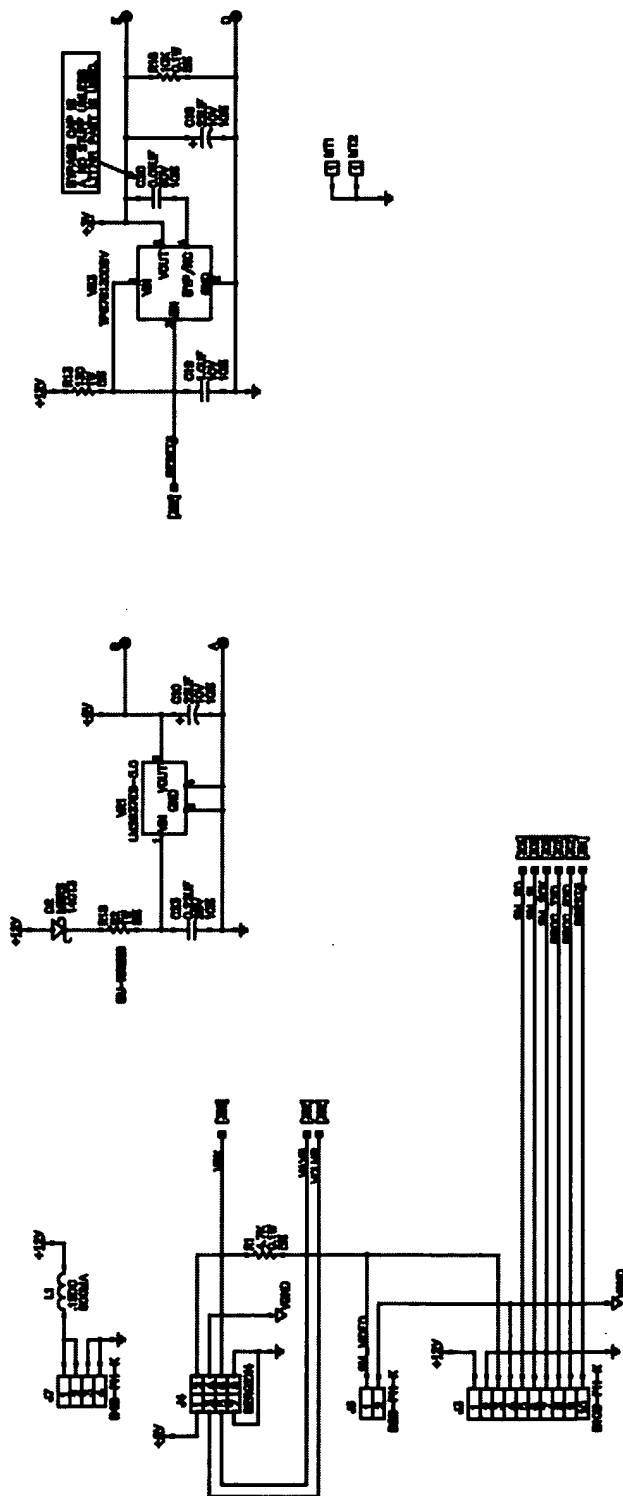


FIG. 11b

IO AND POWER SUPPLY



SCH DIA
CONTROLLER
NIGHT CHANNEL

SCH-9254-001A
(REVISED) 12/73

PHOTOTELESS CORPORATION
PROPRIETARY (SEE SHEET 1)

FIG. 11c

PHOTOTELESS CORPORATION
SCH DIA
CONTROLLER
NIGHT CHANNEL

SCH-8254-001

PHOTOTELESS CORPORATION
PROPRIETARY (SEE SHEET 1)

MICROCONTROLLER



**SCH DIA,
CONTROLLER,
NIGHT CHANNEL**

101 SCH-9254-001 A

PHOTOTELES CORPORATION
PROPRIETARY (SEE SHEET 1)

[illegible]

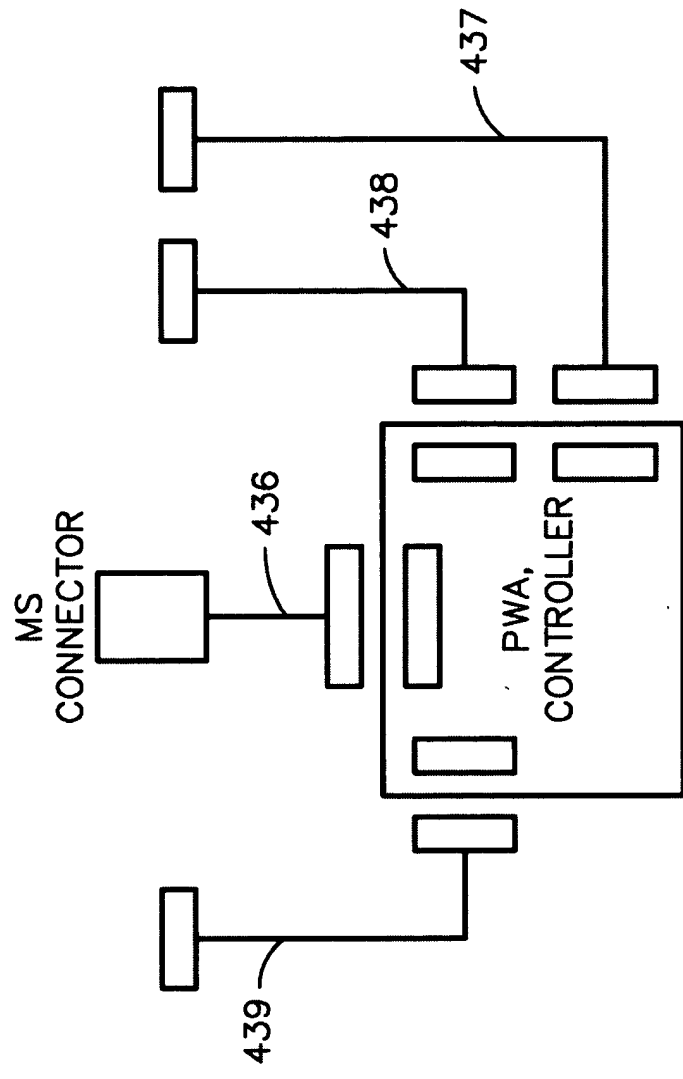
CAMERA INTERFACE



**SCH DIA,
CONTROLLER,
NIGHT CHANNEL**

101	SCH-9254-001	1A
-----	--------------	----

PHOTOTELETYPE CORPORATION
 PROPRIETARY (SEE SHEET 1)



CONNECTION DIAGRAM

FIG. 12

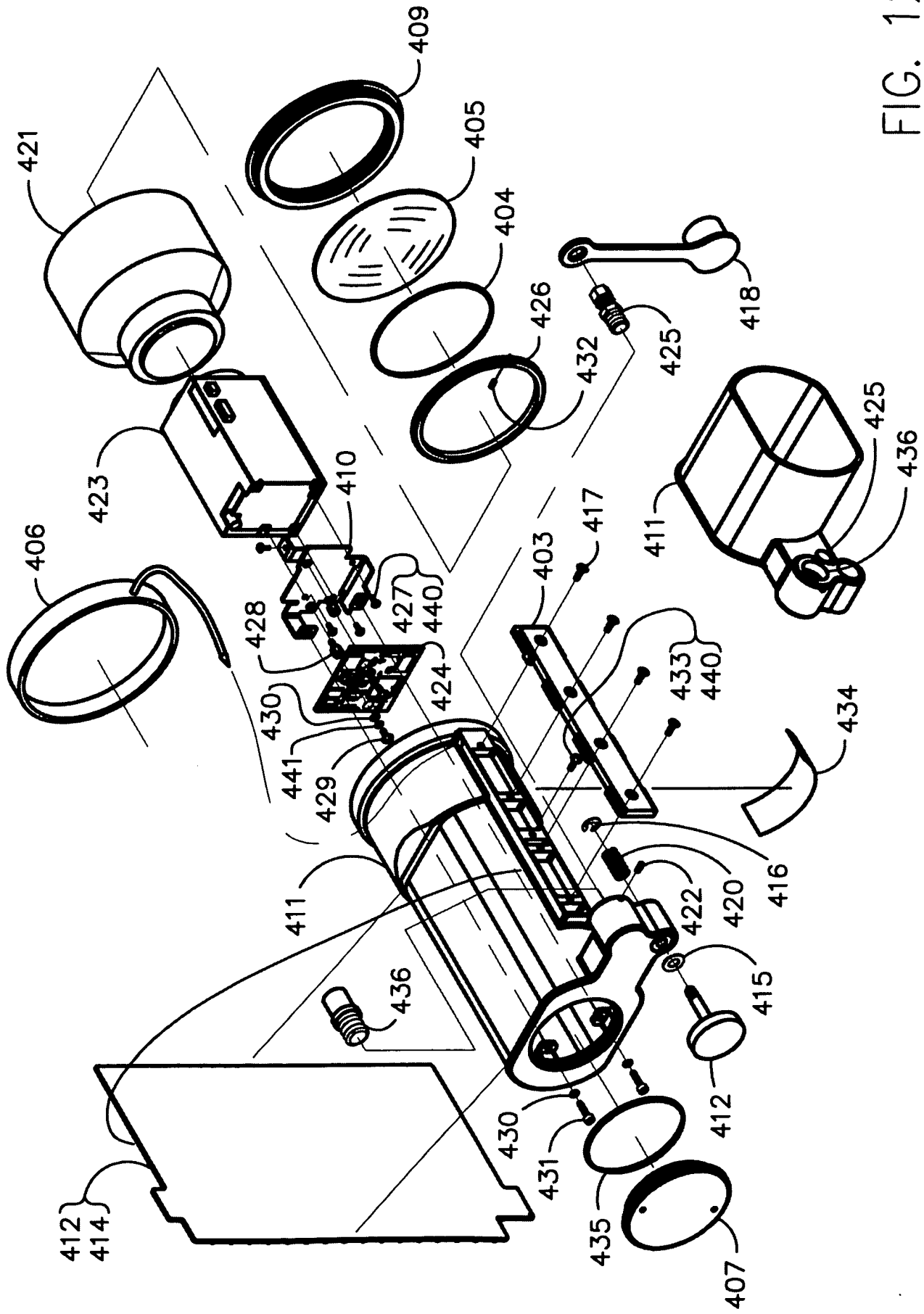


FIG. 12a

7106250-4369360

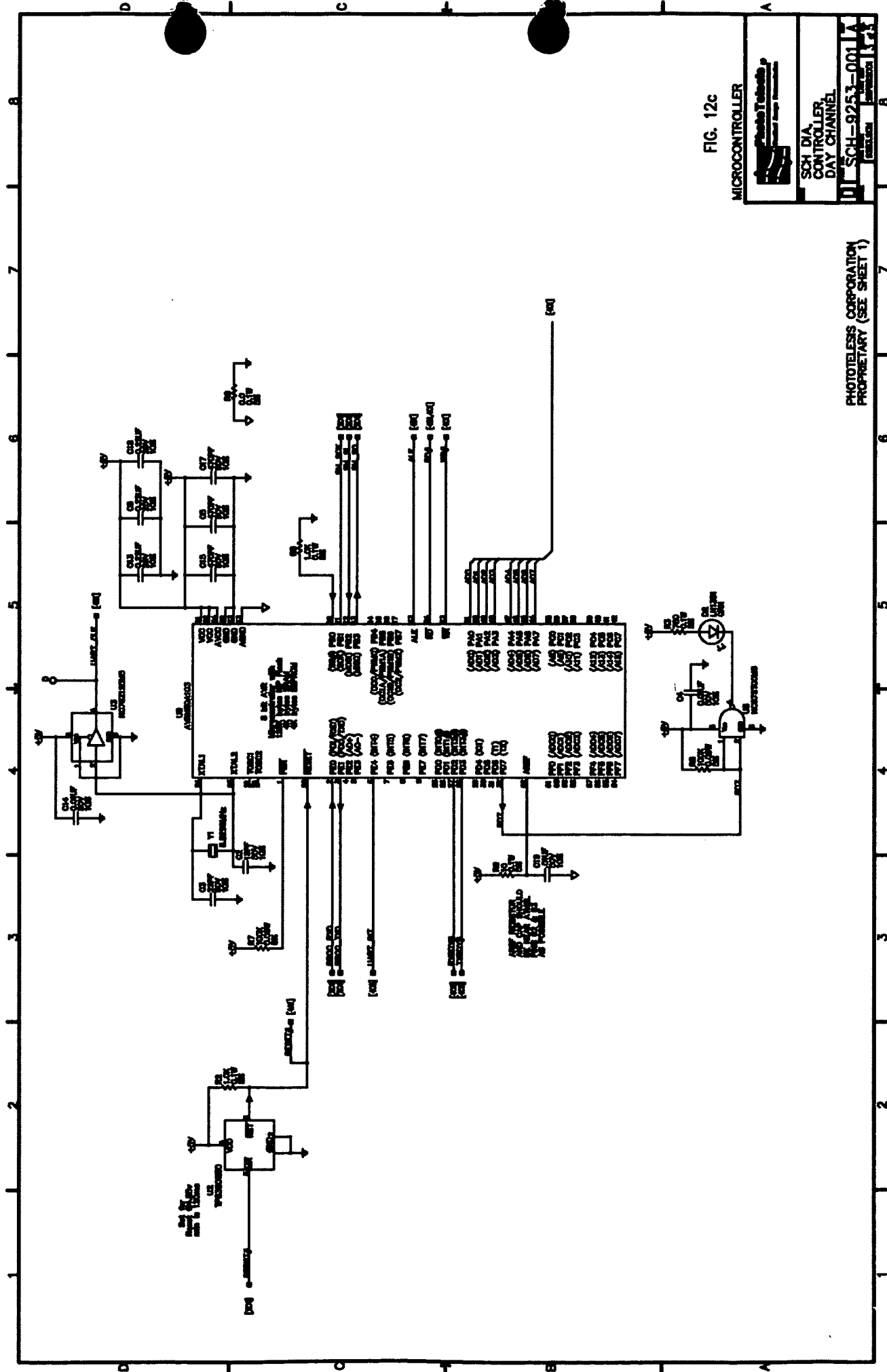


FIG. 12c

MICROCONTROLLER

SCH D/A
CONTROLLER
DAY CHANNEL

SCH-9253-001A

PHOTOTELESS CORPORATION
PROPRIETARY (SEE SHEET 1)

The schematic diagram illustrates the RS-232 interface circuit for the SCH D/A Controller Day Channel. The circuit is powered by a 5V supply and a 12V supply. It includes a 120Ω termination resistor, a 10kΩ pull-up resistor, and a 100nF capacitor. The circuit features a 74121 monostable multivibrator, a 74133 monostable multivibrator, and a 74134 monostable multivibrator. The output is connected to a 100Ω resistor and a 100nF capacitor. The circuit is labeled with various components and their values.

FIG. 12d

RS-232 INTERFACE

SCH D/A CONTROLLER DAY CHANNEL	
SCH-9253-001	
REVISION	8

PHOTOTELE SYSTEMS CORPORATION
PROPRIETARY (SEE SHEET 1)

Photo-Tek
Specialty Photo Services
10000 1st Ave. S.W.
Burien, WA 98148
206-835-1111

SCH DIA
CONTROLLER
DAY CHANNEL

DI SCH-9253-001 A
REVISION 1
8

8